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1 [Interactive presentation: Automatic model generation for black box real-time systems](#)

Thomas Huining Feng, Lynn Wang, Wei Zheng, Sri Kanajan, Sanjit A. Seshia
April 2007 **DATE '07**: Proceedings of the conference on Design, automation and test in Europe

Publisher: EDA Consortium

Full text available: [pdf\(224.87 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Embedded systems are often assembled from black box components. System-level analyses, including verification and timing analysis, typically assume the system description, such as RTL or source code, as an input. There is therefore a need to automatically ...

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2 [View-dependent progressive mesh using non-redundant DAG hierarchy](#)

Zhi Zheng, Tony K. Y. Chan
November 2005 **GRAPHITE '05**: Proceedings of the 3rd international conference on Computer graphics and interactive techniques in Australasia and South East Asia

Publisher: ACM

Full text available: [pdf\(264.54 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We propose a non-redundant DAG hierarchy for view-dependent multiresolution mesh for client-server based online browsing of triangle mesh models. The multiresolution hierarchy and the selectively refined mesh for rendering are two relatively independent ...

Keywords: level of detail, multiresolution mesh, view-dependent refinement

3 [A delta-driven execution model for semantic computing](#)

Roly Perera, Jeff Foster, György Koch
October 2005 **OOPSLA '05**: Companion to the 20th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications

Publisher: ACM

Additional Information: [full citation](#),

[abstract](#),
[references](#), [cited by](#), [index terms](#)

Full text available: [pdf\(359.65 KB\)](#) [mov\(29:0 MIN\)](#)

We describe (and demonstrate) the execution model of a computing platform where computation is both *incremental* and *data-driven*. We call such an approach *delta-driven*. The platform is intended as a delivery vehicle for semantically ...

Keywords: adaptive functions, delta-driven execution, incremental computation, lazy memoization, relational programming

4 Portable resource control in Java

 Walter Binder, Jane G. Hulaas, Alex Villazón

October 2001 **OOPSLA '01**: Proceedings of the 16th ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications

Publisher: ACM

Full text available:  pdf(307.08 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Preventing abusive resource consumption is indispensable for all kinds of systems that execute untrusted mobile code, such as mobile object systems, extensible web servers, and web browsers. To implement the required defense mechanisms, some support for ...

Keywords: Java, bytecode rewriting, micro-kernels, mobile object systems, resource control, security

5 Using model checking to find serious file system errors

 Junfeng Yang, Paul Twohey, Dawson Engler, Madanlal Musuvathi

November 2006 **ACM Transactions on Computer Systems (TOCS)**, Volume 24 Issue 4

Publisher: ACM

Full text available:  pdf(534.00 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article shows how to use model checking to find serious errors in file systems. Model checking is a formal verification technique tuned for finding corner-case errors by comprehensively exploring the state spaces defined by a system. File systems ...

Keywords: Model checking, crash, file system, journaling, recovery

6 Multiversion-based view maintenance over distributed data sources

 Songting Chen, Bin Liu, Elke A. Rundensteiner

December 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 4

Publisher: ACM

Additional Information: [full citation](#), [appendices and](#)

Full text available:  pdf(480.72 KB) [supplements](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Materialized views can be maintained by submitting maintenance queries to the data sources. However, the query results may be erroneous due to concurrent source updates. State-of-the-art maintenance strategies typically apply compensations to resolve ...

Keywords: View maintenance, transaction processing

7 A technical architecture for enforcing usage control requirements in

 **service-oriented architectures**

Agreiter Berthold, Muhammad Alam, Ruth Breu, Michael Hafner, Alexander Pretschner, Jean-Pierre Seifert, Xinwen Zhang
November 2007 **SWS '07:** Proceedings of the 2007 ACM workshop on Secure web services

Publisher: ACM

Full text available:  pdf(647.83 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present an approach to modeling and enforcing usage control requirements on remote clients in service-oriented architectures. Technically, this is done by leveraging a trusted software stack relying on a hardware-based root of trust and a trusted ...

Keywords: SOA, access control, policies, trusted computing, usage control

8 A model of OASIS role-based access control and its support for active security

Jean Bacon, Ken Moody, Walt Yao
November 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 4

Publisher: ACM

Full text available:  pdf(352.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

OASIS is a role-based access control architecture for achieving secure interoperation of services in an open, distributed environment. The aim of OASIS is to allow autonomous management domains to specify their own access control policies and to interoperate ...

Keywords: Certificates, OASIS, RBAC, distributed systems, policy, role-based access control, service-level agreements

9 Specification and verification of security requirements in a programming model for decentralized CSCW systems

Tanvir Ahmed, Anand R. Tripathi
May 2007 **ACM Transactions on Information and System Security (TISSEC)**, Volume 10 Issue 2

Publisher: ACM

Full text available:  pdf(746.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present, in this paper, a role-based model for programming distributed CSCW systems. This model supports specification of dynamic security and coordination requirements in such systems. We also present here a model-checking methodology for verifying ...

Keywords: Security policy specification, finite state-based model checking, methodology for access-control policy design, role-based access control

10 Representation independence, confinement and access control

 **[extended abstract]**

Anindya Banerjee, David A. Naumann
January 2002 **POPL '02: ACM SIGPLAN Notices**, Volume 37 Issue 1

Publisher: ACM

Full text available:  pdf(262.80 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Denotational semantics is given for a Java-like language with pointers, subclassing and dynamic dispatch, class oriented visibility control, recursive types and methods, and privilege-based access control. Representation independence (relational parametricity) ...

11 Providing high-level control and expert assistance in the user interface presentation design

 Won Chul Kim, James D. Foley
May 1993 **CHI '93**: Proceedings of the INTERACT '93 and CHI '93 conference on Human factors in computing systems

Publisher: ACM

Full text available:  pdf(918.49 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Current user interface builders provide only low-level assistance, because they have knowledge of neither the application, nor the principles by which interface elements are combined effectively. We have developed a framework that unites the knowledge ...

Keywords: UI design process, automatic layout, knowledge-based tool

12 A historical perspective on runtime assertion checking in software development

 Lori A. Clarke, David S. Rosenblum
May 2006 **ACM SIGSOFT Software Engineering Notes**, Volume 31 Issue 3
Publisher: ACM

Full text available:  pdf(473.68 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This report presents initial results in the area of software testing and analysis produced as part of the Software Engineering Impact Project. The report describes the historical development of runtime assertion checking, including a description of the ...

13 A framework for concrete reputation-systems with applications to history-based access control

 Karl Krukow, Mogens Nielsen, Vladimiro Sassone
November 2005 **CCS '05**: Proceedings of the 12th ACM conference on Computer and communications security
Publisher: ACM

Full text available:  pdf(257.53 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In a reputation-based trust-management system, agents maintain information about the past behaviour of other agents. This information is used to guide future trust-based decisions about interaction. However, while trust management is a component in security ...

Keywords: history-based access control, model checking, reputation, temporal logic, trust management

14 Discretionary access control with the administrative role graph model

He Wang, Sylvia L. Osborn
June 2007 **SACMAT '07**: Proceedings of the 12th ACM symposium on Access

 control models and technologies

Publisher: ACM

Full text available:  pdf(188.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Previous research examining the mapping of discretionary access control (DAC) to role-based access control (RBAC) has considered neither ownership nor further granting of privileges. We show how to accomplish this by mapping from a relational database ...

Keywords: DAC, role graph model, role-based access control

15 Control-flow integrity

 Martín Abadi, Mihai Budiu, Úlfar Erlingsson, Jay Ligatti
November 2005 **CCS '05: Proceedings of the 12th ACM conference on Computer and communications security**

Publisher: ACM

Full text available:  pdf(218.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Current software attacks often build on exploits that subvert machine-code execution. The enforcement of a basic safety property, Control-Flow Integrity (CFI), can prevent such attacks from arbitrarily controlling program behavior. CFI enforcement is ...

Keywords: binary rewriting, control-flow graph, inlined reference monitors, vulnerabilities

16 Model Checking Implicit-Invocation Systems

David Garlan, Serge Khersonsky
November 2000 **IWSSD '00: Proceedings of the 10th International Workshop on Software Specification and Design**

Publisher: IEEE Computer Society

Full text available:  pdf(134.08 KB)  Publisher Site Additional Information: [full citation](#), [abstract](#), [cited by](#)

While implicit invocation (publish-subscribe) systems have good engineering properties, they are difficult to reason about and to test. Model checking such systems is an attractive alternative. However, it is not clear what kinds of state models are ...

Keywords: Implicit invocation, publish-subscribe, model checking

17 Model-carrying code: a practical approach for safe execution of untrusted applications

 R. Sekar, V.N. Venkatakrishnan, Samik Basu, Sandeep Bhatkar, Daniel C. DuVarney
December 2003 **SOSP '03: ACM SIGOPS Operating Systems Review**, Volume 37 Issue 5

Publisher: ACM

Full text available:  pdf(301.30 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

This paper presents a new approach called *model-carrying code* (MCC) for safe execution of untrusted code. At the heart of MCC is the idea that untrusted code comes equipped with a concise high-level model of its security-relevant behavior. This ...

Keywords: mobile code security, policy enforcement, sand-boxing, security policies

18 A model-driven approach to performability analysis of dynamically reconfigurable component-based systems

 Vincenzo Grassi, Raffaela Mirandola, Antonino Sabetta
February 2007 **WOSP '07**: Proceedings of the 6th international workshop on Software and performance

Publisher: ACM

Full text available:  pdf(420.26 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Dynamic reconfiguration techniques appear promising to build component-based (C-B) systems for application domains that have strong adaptability requirements, like the mobile and the service-oriented computing domains. However, introducing dynamic reconfiguration ...

Keywords: dynamic reconfiguration, model-driven development, performability

19 Applying model-integrated computing to component middleware and enterprise applications

 Aniruddha Gokhale, Douglas C. Schmidt, Balachandran Natarajan, Nanbor Wang
October 2002 **Communications of the ACM**, Volume 45 Issue 10

Publisher: ACM

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)
Full text available:  pdf(144.29 KB)  html(46.13 KB)

Combining the best elements of these two technologies can address the key challenges associated with developing enterprise applications.

20 A dynamic information flow model of secure systems

 Jianjun Shen, Sihan Qing
March 2007 **ASIACCS '07**: Proceedings of the 2nd ACM symposium on Information, computer and communications security

Publisher: ACM

Full text available:  pdf(221.81 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We characterize the information flow features of an information system in a state machine model, which emphasizes on the subject properties of information flows. We argue that the legality of a flow mainly depends on the subjects exploit it rather than ...

Keywords: access control, covert channel, information flow, security policy

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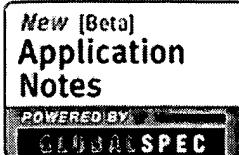
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IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

**1. A Model-Based Framework for the Integration of Parallel Tools**

Watson, G.R.; Debardeleben, N.A.;

[Cluster Computing, 2006 IEEE International Conference on](#)

25-28 Sept. 2006 Page(s):1 - 11

Digital Object Identifier 10.1109/CLUSTR.2006.311883

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Okada, K.; Ogura, T.; Haneda, A.; Fujimoto, J.; Gravot, F.; Inaba, M.;

[Mechatronics and Automation, 2005 IEEE International Conference](#)

Volume 4, 29 July-1 Aug. 2005 Page(s):1772 - 1777 Vol. 4

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